Headquarters U.S. Air Force

Integrity - Service - Excellence

Green Base of the Future (GBOF)

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HQ AFCEE/DCD
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Background

- Texas Pollution Prevention Partnership (TXP3) initiative
- Executed by the Air Force Center for Environmental Excellence (AFCEE)
- Goal to create nationally recognized model for integrating P2 into everyday activities
  - Positive impact on installation economics and mission readiness
  - Positive impact on the environment

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Benefit Example

- Mission Readiness
  - "Hydroblast" washrack wand
  - Requires less detergent and speeds the wash process
  - Readies airframes for flight more quickly
- Economic
  - "Hydroblast" uses less water, produces less wastewater.
  - Disposal cost of $0.07/lb, a potential savings of $75,000/year
- Environmental
  - Reduction of water used (resource conservation)
  - Reduction of disposed water
  - Improved wastewater filtration system (further pollution reduction), wastewater permits may no longer be required

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History

- Charrette I, Jan 1999
  - Identified Key Players
  - Identified Critical Elements for Making GBOF a Reality
- Charrette II, Dec 1999
  - US Green Building Council's Leadership in Energy and Environmental Design (LEED) system used as a point of departure
  - Identified Installation Functional Areas
  - Identified Environmental Areas of "Green Opportunity"
  - Two Products
    - Guide
    - Measurement Tool

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History

- 3D/I gathered data from existing tools
  - EMSAT (Air Force)
  - ISR (Army)
  - RCRA 6002 (EPA)
  - Executive Order 13148 (OFEE)
  - ISO 14000
  - Navy Environmental Checklists
  - Army, Navy and AF Regulations, Instructions and Guides
  - Etc.
- Does not attempt to invent new tools

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History

- AFCEE, 3D/I and Consultants met the week of 24 July 00 to build questions for the Beta Test version
- Bases do not want or need another burdensome reporting mechanism
- Tool to help identify strengths and weaknesses
- Quick and simple to use with results that are meaningful

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Areas of Opportunity

- Sustainable Planning
- Natural and Created Environments
- Energy Efficiency
- Conservation of Materials and Resources
- Atmospheric Quality
- Safeguarding Water
- Cultural Resources

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Functional Areas

- Installation Command and Staff
- Operations
- Logistics
- Mission
- Medical
- Tenants

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GBOF Formula

- Templates of seven Environmental Areas of Opportunity with Yes/No awareness questions
- Templates customized by each flight, squadron, group and installation
- Higher scores for each level achieved and documented
  - Exceeding the minimum criteria
  - Cost savings
  - Manpower savings
- No “Bad Answers”
  - Answers reflect status and allows comparison
  - No penalty if a question does not apply
- Summary scores allow comparison within and between installations

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Current Status

- Beta Test in progress
- Dyess approached writing questions applicable to all functional areas and at all levels
- Intent was for each functional area at each level (Group, Squadron and Flight) to develop applicable questions
  - Approximately one hour to customize for each organization
  - Once customized, updating will only take minutes
  - Goal is for entire process to be completed and moved from Flight to Installation Commander in half a day
- Dyess has learned that conservation has been overlooked, indicating the GBOF process and current format are valid and valuable
- Field Tests to continue at other Army, Navy and Air Force installations in Texas

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Future Development

- After Field Testing is complete, GBOF will be available for use by all services
- First four years will be an implementation phase where installations use the tool on their own and provide feedback for improving the product
- Updating the lessons learned will allow for continuous process improvement
- Ultimately, official GBOF certification will be available

Discussion